

PATENT ABSTRACTS OF JAPAN

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(54) WINDER FOR ELASTIC THREAD AND MANUFACTURE THEROF

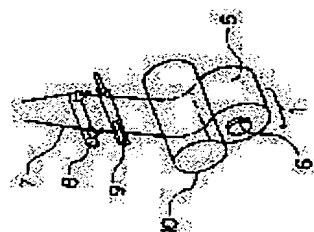
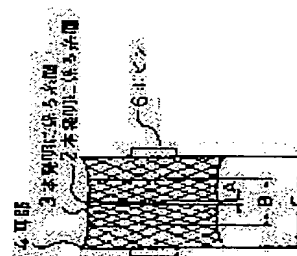
(57)Abstract:

PURPOSE: To prevent a thread from coming off an outer periphery and eliminate a trouble of thread breaking by decreasing the width for traversing the thread before the end of winding and finally winding the thread substantially without traversing it.

CONSTITUTION: An elastic thread 7 is wound around a bobbin 6 while forming a thread layer 5. Before the end of winding, the guide width of a traverse width decreasing guide 9 is decreased to form a thread layer 3 with the smaller width than the width between both edges of a thread winder, on the thread layer 5.

Finally, a traverse width decrease guide 9 comes into action so as to generate no substantial traversing, thus completing winding. As a result, the thread layer 2 of the outer most layer is wound so that its edge angle may be close to 0°, so the threads

are brought into contact with each other over the whole length to prevent the thread from coming off at the time of being released from the winder. Since the thread is wound with no overlap, no broken thread is generated at the time of being released from the winder. Moreover, since the layer 3 has a smaller edge angle than that of the thread layer 5, the frictional force of the threads coming into contact with each other is large, and the thread is difficult to come off.



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